

Appl. No. 10/726,601
Amendment dated: February 11, 2005
Reply to OA of: August 11, 2004

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(currently amended). A ratchet wrench, comprising:
a handle having a hole at an end thereof;
a ratchet wheel having a polygonal hole at a center thereof, a first teeth portion at an annular outer surface thereof, and two engagement portions disposed respectively at opposite ends thereof; ~~the~~ said ratchet wheel being rotatably mounted in ~~the~~ said hole of the handle with the engagement portions protruded out of the hole of ~~the~~ said handle;
a pawl mounted in the hole of ~~the~~ said handle and having a second teeth portion detachably meshed with ~~the~~ said first teeth portion of ~~the~~ said ratchet wheel, and
two annular members firmly fastened to the engagement portions of the ratchet wheel respectively, each of ~~said annular member members~~ each having an outer diameter greater than a diameter of the hole of ~~the~~ said handle.

2(currently amended). The ratchet wrench as defined in claim 1, wherein ~~the~~ said engagement portions of ~~the~~ said ratchet wheel are coaxially ~~annually~~ annularly disposed at ~~the annular~~ said annular outer surface at the opposite sides of said first teeth portion.

3(currently amended). The ratchet wrench as defined in claim 2, wherein ~~the~~ said two annular members are ~~member is~~ provided at a center thereof with a hole having a diameter substantially equal to a diameter of one of said engagement portions of ~~the~~ said ratchet wheel such that ~~the~~ said two annular members are ~~member is~~ firmly fastened ~~fasten~~ to ~~the~~ said engagement portion of ~~the~~ said ratchet wheel by fitting said engagement portion of ~~the~~ said ratchet into the hole of ~~the~~ said two annular members ~~member~~.

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4(currently amended). The ratchet wrench as defined in claim 1, wherein ~~the~~ said two annular members are ~~member is~~ made of a plastic material.

5(currently amended). The ratchet wrench as defined in claim 3, wherein ~~the~~ said two annular members are ~~member is~~ provided with an embossment at a wall of the hole thereof.

6(currently amended). The ratchet wrench as defined in claim 1, wherein said ratchet wheel is provided with embossments on ~~the~~ said engagement portions of ~~the~~ said ratchet wheel respectively.

7(currently amended). The ratchet wrench as defined in claim 1, wherein said two annular members are fastened to ~~the~~ said engagement portions of ~~the~~ said ratchet wheel by screw threads respectively.

8(currently amended). The ratchet wrench as defined in claim 1, wherein ~~the~~ said engagement portions of ~~the~~ said ratchet wheel and ~~the~~ said two annular members ~~member~~ are respectively provided with a slope surface engaged with each other.

9(currently amended). A ratchet wrench, comprising:

a handle having hole at an end thereof;

a ratchet wheel having a polygonal hole at a center thereof, a first teeth portion at an annular outer surface thereof, an engagement portion at an end thereof and an annular flange at the other end thereof, wherein ~~the~~ said annular flange has an outer diameter greater than a diameter of the hole of ~~the~~ said handle; said ratchet wheel being rotatably mounted in the hole of ~~the~~ said handle with ~~the~~ said engagement portion and ~~the~~ said annular flange protruded out of the hole;

a pawl mounted in the hole of ~~the~~ said handle and having a second teeth portion detachably meshed with ~~the~~ said first teeth portion of ~~the~~ said ratchet wheel, and

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an annular member having an outer diameter greater than the diameter of the hole of ~~the~~ said handle, wherein ~~the~~ said annular member is firmly fastened to ~~the~~ said engagement portion of ~~the~~ said ratchet wheel.

10(currently amended). The ratchet wrench as defined in claim 9, wherein ~~the~~ said engagement portion of ~~the~~ said ratchet wheel is coaxially annularly disposed at ~~the~~ said annular outer surface.

11(currently amended). The ratchet wrench as defined in claim 9, wherein ~~the~~ said annular ~~members are~~ member is provided at a center thereof with a hole having a diameter substantially equal to a diameter of said engagement portion of ~~the~~ said ratchet wheel such that ~~the~~ said annular ~~members are~~ member is firmly fastened ~~fasten~~ to ~~the~~ said engagement portion of ~~the~~ said ratchet wheel by fitting said engagement portion of ~~the~~ said ratchet into the hole of ~~the~~ said annular ~~members~~ member.

12(currently amended). The ratchet wrench as defined in claim 9, wherein ~~the~~ said annular member is made of a plastic material.

13(currently amended). The ratchet wrench as defined in claim 11, wherein ~~the~~ said annular member is provided with an embossment at a wall of the hole thereof.

14(currently amended). The ratchet wrench as defined in claim 9, wherein said ratchet wheel is provided with an embossment on ~~the~~ said engagement portion of ~~the~~ said ratchet wheel.

15(currently amended). The ratchet wrench as defined in claim 9, wherein said annular member is fastened to ~~the~~ said engagement portion of ~~the~~ said ratchet wheel by screw threads.

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16(currently amended). The ratchet wrench as defined in claim 9, wherein the said engagement portion of the said ratchet wheel and the said annular member are respectively provided with a slope surface engaged with each other.

17(new). A ratchet wrench, comprising:
a handle having a hole at an end thereof;
a ratchet wheel having a polygonal hole at a center thereof, a first teeth portion at an annular outer surface thereof, and two engagement portions disposed respectively at opposite ends thereof, said ratchet wheel being rotatably mounted in the hole of said handle with the engagement portions protruded out of the hole of said handle, each of said engagement portions having an outer surface;
a pawl mounted in the hole of said handle and having a second teeth portion detachably meshed with said first teeth portion; and
two annular members each having an inner surface firmly fastened to an outer surface of a corresponding one of said engagement portions, with each annular member having an outer diameter greater than a diameter of the hole of said handle

18(new). The ratchet wrench as defined in claim 17, wherein said outer surface of each of said engagement portions and said inner surface of each of said annular members have embossment formed thereon which are mutually engaged to effect said firmly fastened condition.

19(new). The ratchet wrench as defined in claim 17, wherein said outer surface of each of said engagement portions and said inner surface of each of said annular members have threads formed thereon which are mutually engaged to effect said firmly fastened condition.